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# PG-300

## SYNTHESIZER PROGRAMMER

The PG-300 is a programmer specially designed for  
the  $\alpha$  JUNO-1 and the  $\alpha$  JUNO-2.

## CONTENTS

<b>1</b>	<b>Panel Description</b>	3
<b>2</b>	<b>Operation</b>	4
1.	Power Up	5
2.	Tone Edit	5
3.	Tone Creation	5
<b>3</b>	<b>Application</b>	6
1.	Controlling the MIDI Sound Module with MIDI Keyboard Recorder	6
2.	Changing MIDI Channels	6
<b>4</b>	<b>Specifications</b>	7

### RADIO AND TELEVISION INTERFERENCE

**Warning** – This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J. of Part 15. of FCC Rules. Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception.

The equipment described in this manual generates and uses radio-frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J. of Part 15. of FCC Rules. These rules are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that the interference to radio or television reception, which can be determined by turning the equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measure:

- Disconnect other devices and their input output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable. These devices usually require Roland designated shielded I/O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.

If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures:

- Turn the TV or radio antenna until the interferences stops.
- Move the equipment to one side or the other of the TV or radio.
- Move the equipment farther away from the TV or radio.
- Plug the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
- Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV.

If necessary, you should consult your dealer or an experienced radio television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission:

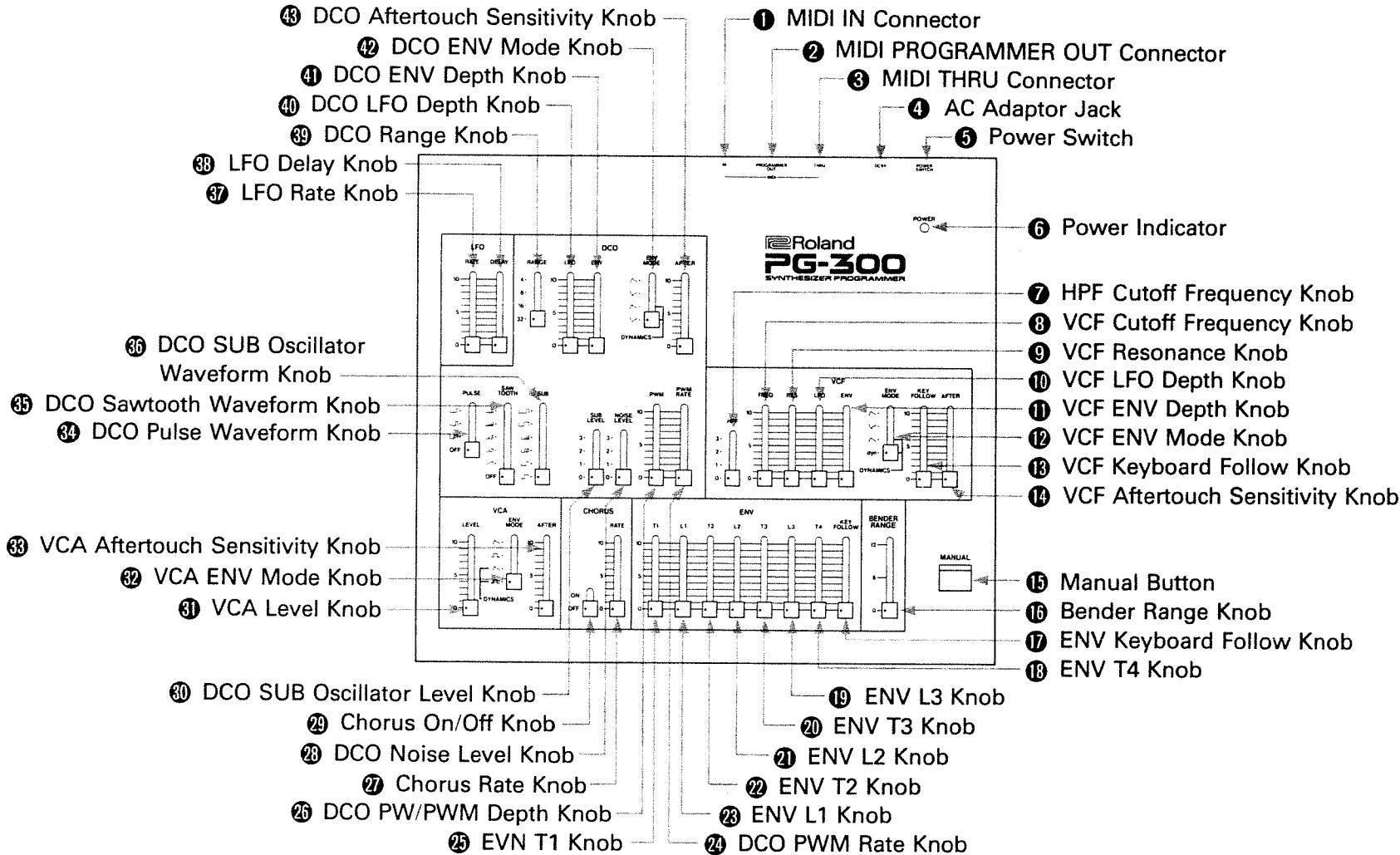
"How to Identify and Resolve Radio-TV Interference Problems"  
This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

Please read the separate volume "MIDI", before reading this owner's manual.

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## 1 PANEL DESCRIPTION



The PG-300 is the programmer specially designed for synthesizing the tone colors of the  $\alpha$  JUNO-1 and the  $\alpha$  JUNO-2.

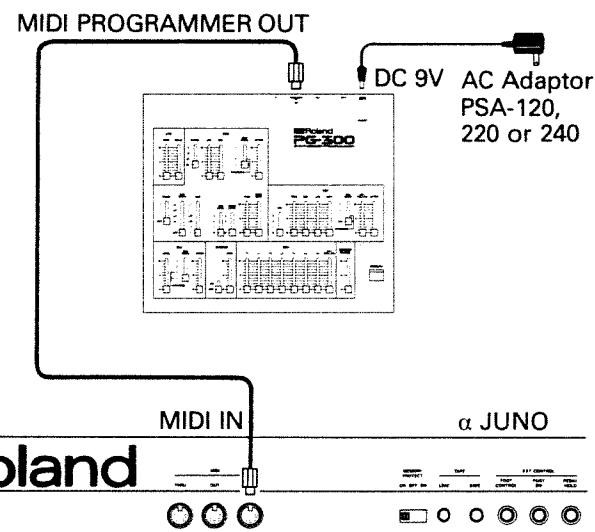
By using the PG-300, a tone color can be much more easily and quickly edited or created from scratch.

This tone modifying function of the PG-300 is executed by the MIDI Exclusive messages which are the specific messages used by Roland. Therefore, the PG-300 cannot control the tone colors of other manufacturers' synthesizers. Even the Roland synthesizers cannot be used with the PG-300, unless they can recognize the MIDI Exclusive messages.



## 2 OPERATION

To use the PG-300 in the setup with the  $\alpha$  JUNO, set the MIDI channel of the  $\alpha$  JUNO to 1. (Refer to the  $\alpha$  JUNO's owner's manual.)



The PG-300 controls the  $\alpha$  JUNO's tone colors using the MIDI Exclusive message. So, be sure to turn the MIDI Exclusive message in the  $\alpha$  JUNO's MIDI Functions ON.

\* Refer to the  $\alpha$  JUNO's owner's manual on page 32.

However, it is also possible to set the receive channel of the  $\alpha$  JUNO other than 1. (Refer to "Changing MIDI Channels" on page 6.)

## 1. Power Up

### OPERATION

**Switch on the  $\alpha$  JUNO, then the PG-300.**

The Power Indicator **⑥** will light up.

## 2. Tone Edit

This Tone Edit function is useful for slightly modifying the tone color.

### OPERATION

**① Select the tone color to be modified on the  $\alpha$  JUNO.**

**② Using the knobs on the Programmer, edit the tone color.**

If you move a desired knob even slightly, its setting position of that tone color will be deleted and ready to be manually controlled.

\* This Editing function does not automatically rewrite the existing tone color, therefore, if calling the same tone color later, the unchanged original

tone color will be heard. To retain the edited tone color, take an appropriate writing procedure on the  $\alpha$  JUNO.

\* While editing a parameter with the PG-300, even if the current set positions of the knobs or switches are exactly what you desire, change the position once then return it. Otherwise, the parameter value might not be affected by the PG-300, thereby remain unchanged.

## 3. Creating a new Tone Color

This function is useful for synthesizing a tone color from scratch.

### OPERATION

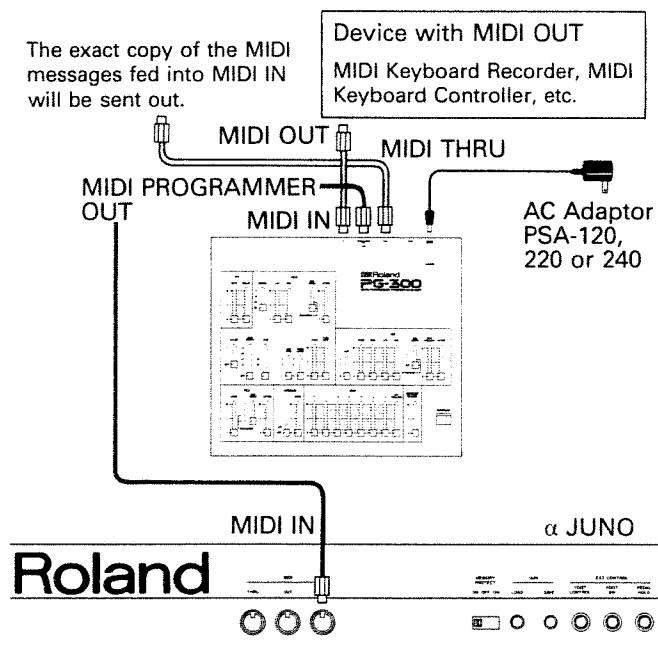
**Push the Manual Button **⑯**.**

Now, the whole panel setting of the PG-300 decides the tone color. That is, existing tone color in memory has nothing to do with your sound synthesis. You can make a complete new tone color from scratch.

\* The tone color you have synthesized will not be retained unless a proper writing procedure is taken on the  $\alpha$  JUNO. The writing operation, however, inevitably erases a tone color.

### 3 APPLICATION

#### 1. Controlling the $\alpha$ JUNO with MIDI Keyboard Recorder



To control the  $\alpha$  JUNO with a MIDI device, connect the MIDI OUT of the MIDI device to the MIDI IN Connector ① on the Programmer.

\* The PG-300's MIDI messages for tone color editing and the messages fed into the MIDI IN are mixed and sent through the MIDI PROGRAMMER OUT.

#### 2. Changing MIDI Channels

By using the DCO SUB Oscillator Level Knob ⑩ and the DCO Noise Level Knob ⑪, you can set any of the MIDI Channels 1 to 16. (See the Table 1 shown below.)

##### OPERATION

- ① Turn the PG-300 off.

With the aid of the table shown below, set the two switches to the appropriate numbers.

	MIDI Channel															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DCO SUB Oscillator Level Knob ⑩	0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	3
DCO Noise Level Knob ⑪	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3

\* If you switch the PG-300 off while playing the keyboard, various troubles will occur, such as the played keys keep crying even after the keys are released.

- ② While holding the Manual Button ⑯ down, switch the PG-300 on.

Now, set the  $\alpha$  JUNO to the same MIDI Channel as you have set in above operation.

## **IMPORTANT NOTES**

### **POWER**

- When setting up the PG-300 with the  $\alpha$  JUNO, turn both of them off.
- This unit might not work properly if turned on immediately after turned off. If this happens, simply turn it off and turn it on again a few seconds later.
- Be sure to use the supplied AC Adaptor. Using any other adaptor may cause trouble.

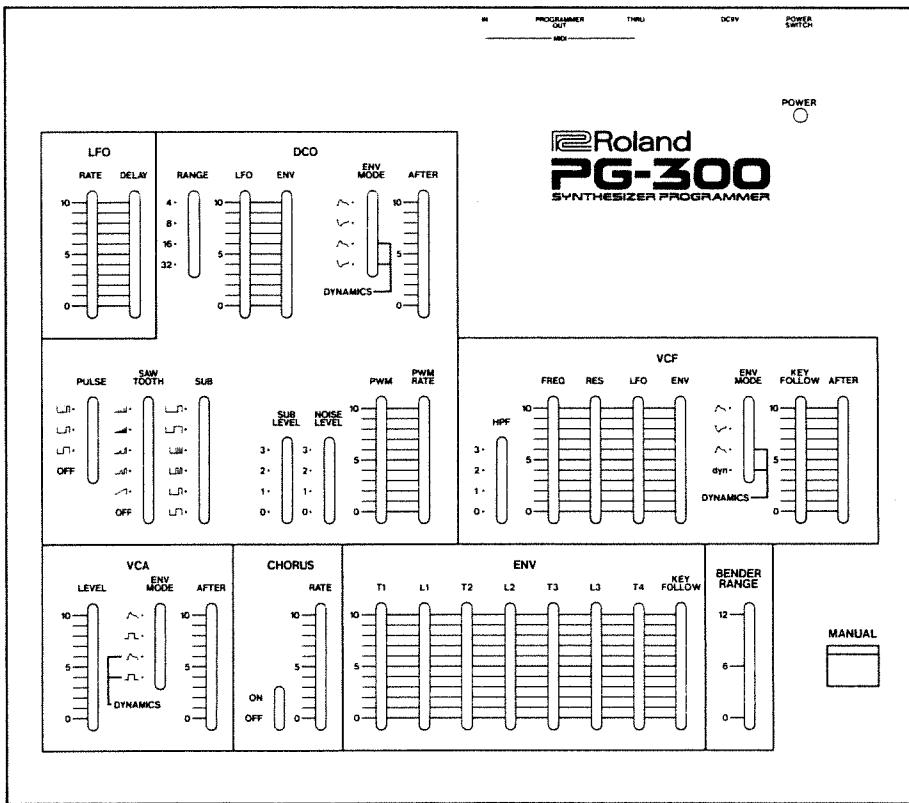
### **LOCATION**

- Avoid using the  $\alpha$  JUNO in excessive heat or humidity or where it may be affected by direct sunlight or dust.

### **CLEANING**

- Clean the unit with only soft cloth and mild detergent.
- Do not use solvents such as THINNER.

## Setting Memo



Title: \_\_\_\_\_

Model: \_\_\_\_\_

Memory, Cartridge ( )

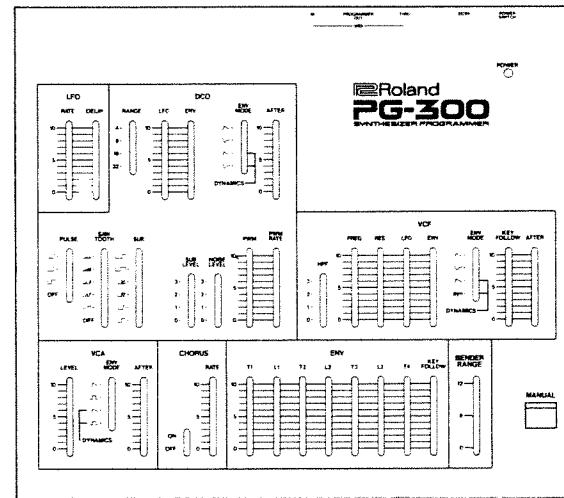
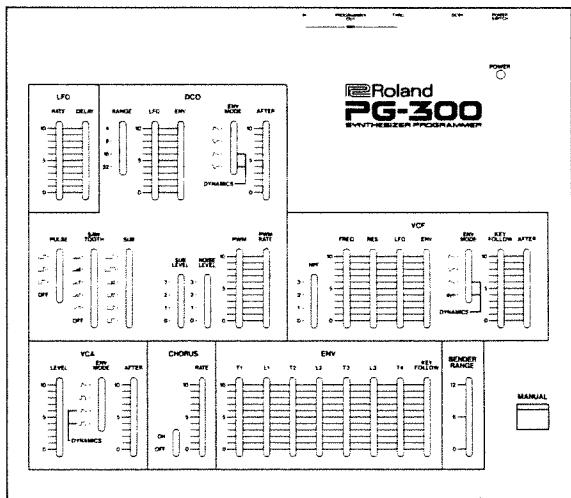
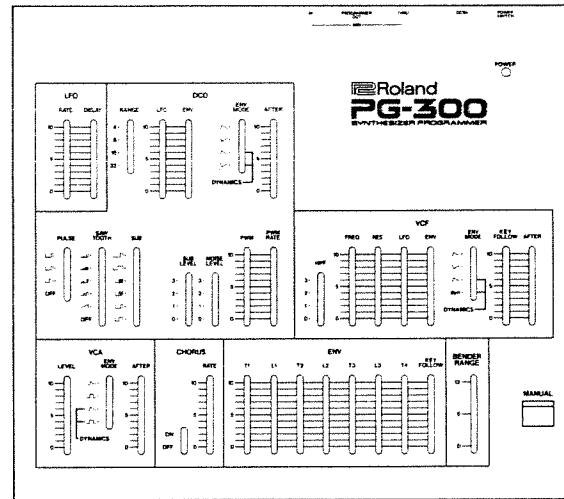
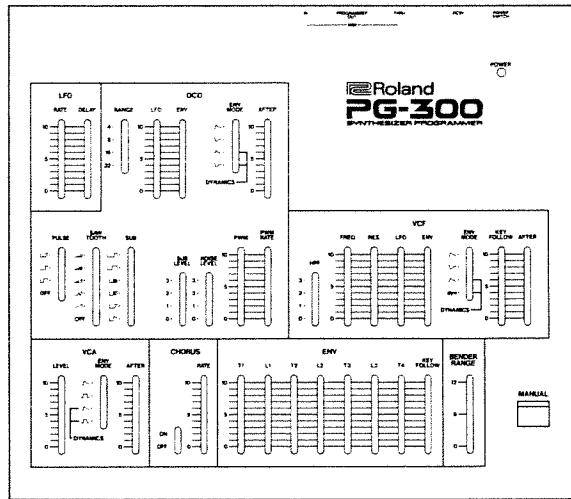
Bank: \_\_\_\_\_ Patch: \_\_\_\_\_

Memo:

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## 4 SPECIFICATIONS

- **Front Panel**

LFO Rate Knob  
LFO Delay Knob  
DCO Range Knob  
DCO LFO Depth Knob  
DCO ENV Depth Knob  
DCO ENV Mode Knob  
DCO Aftertouch Sensitivity Knob  
DCO Pulse Waveform Knob  
DCO Sawtooth Waveform Knob  
DCO SUB Oscillator Waveform Knob  
DCO SUB Oscillator Level Knob  
DCO Noise Level Knob  
DCO PW/PWM Depth Knob  
DCO PWM Rate Knob  
HPF Cutoff Frequency Knob  
VCF Cutoff Frequency Knob  
VCF Resonance Knob  
VCF LFO Depth Knob  
VCF ENV Depth Knob  
VCF ENV Mode Knob  
VCF Keyboard Follow Knob  
VCF Aftertouch Sensitivity Knob  
VCA ENV Mode Knob  
VCA Aftertouch Sensitivity Knob  
VCA Level Knob

Chorus On/Off Knob  
Chorus Rate Knob  
ENV T1 Knob  
ENV L1 Knob  
ENV T2 Knob  
ENV L2 Knob  
ENV T3 Knob  
ENV L3 Knob  
ENV T4 Knob  
ENV Keyboard Follow Knob  
Bender Range Knob  
Manual Button  
Power Indicator

- **Rear Panel**

Power Switch  
AC Adaptor Jack  
MIDI IN Connector  
MIDI PROGRAMMER OUT Connector  
MIDI THRU Connector

- **Consumption** 200 mA (DC 9V)
- **Weight** 1.7 kg/3 lb 12 oz (without the Adaptor)
- **Dimensions** 267(W) × 55(H) × 238(D)mm  
10-1/2" × 2-1/8" × 9-1/8"
- **Accessories** AC Adaptor PSA-120, 220 or 240  
MIDI/SYNC Cable × 1





## MODEL PG-300 MIDI Implementation Chart

Function.....		Transmitted	Recognized	Remarks
Basic Channel	Default Changed	1 1 - 16 **	X X	
Mode	Default Messages Altered	X * * * * * * * * * *	X X	
Note Number	True voice	* * * * * * * * * *	X	
Velocity	Note ON Note OFF	*	X X	
After Touch	Key's Ch's	*	X X	
Pitch Bender		*	X	
		*	X	
Control Change				
Prog Change	True #	* * * * * * * * * *	X X	
System Exclusive		○	X	Tone parameter
System Common	Song Pos Song Sel Tune	* * *	X X X X	
System Real Time	Clock Commands	*	X X	
Aux Messages	Local ON OFF All Notes OFF Active Sense Reset	* ○ *	X X ○ X	
Notes				* : This unit transmits all received MIDI messages except Active Sense. ** : Used as 'Unit #' in Exclusive Messages.

Mode 1 : OMNI ON, POLY  
Mode 3 : OMNI OFF, POLY

Mode 2 : OMNI ON, MONO  
Mode 4 : OMNI OFF, MONO

○ : Yes  
X : No



**Roland®**  
**10203**

UPC 10203



10203

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